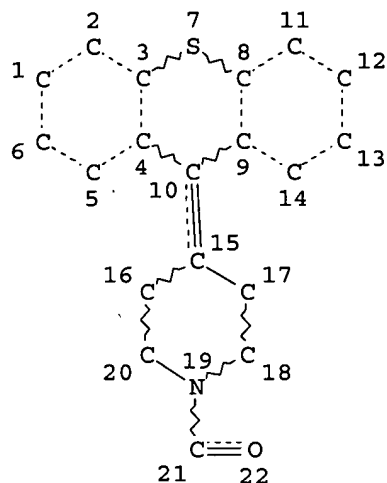


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L3 HAS NO ANSWERS

L3 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 16 10

NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

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FULL SEARCH INITIATED 18:06:13 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 83 TO ITERATE

100.0% PROCESSED 83 ITERATIONS

41 ANSWERS

SEARCH TIME: 00.00.01

L5 41 SEA SSS FUL L3

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

170.60

170.81

FILE 'CAPLUS' ENTERED AT 18:06:17 ON 18 DEC 2006

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FILE COVERS 1907 - 18 Dec 2006 VOL 145 ISS 26
FILE LAST UPDATED: 17 Dec 2006 (20061217/ED)

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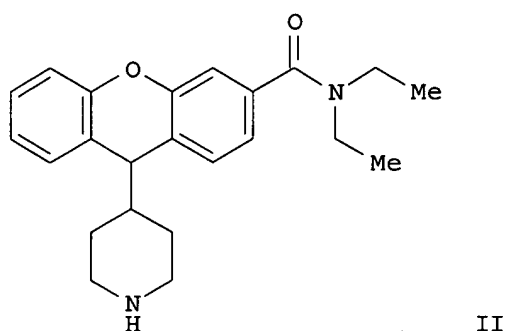
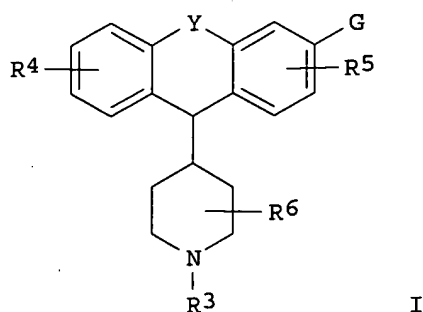
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L6 15 L5

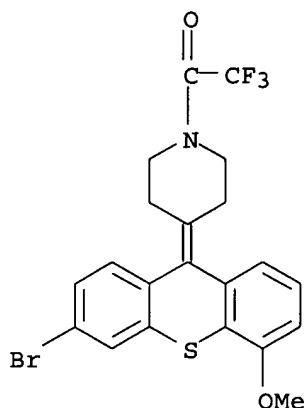
=> d bib abs hitstr 1-15

L6 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2006:605887 CAPLUS
DN 145:83215
TI Preparation of tricyclic delta-opioid modulators for treating pain and
other diseases
IN Carson, John R.; Dax, Scott L.; Decorte, Bart; Liu, Li; McDonnell, Mark;
McNally, James J.
PA USA
SO U.S. Pat. Appl. Publ., 61 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2006135522	A1	20060622	US 2005-314300	20051221
	WO 2006069275	A1	20060629	WO 2005-US46690	20051221
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	US 2004-638314P	P	20041222		
OS	MARPAT 145:83215				
GI					



- AB The invention is directed to delta opioid receptor modulators of general formula I (wherein G = -C(Z)N(R1)R2, (un)substituted C6-10aryl, or (unsubstituted) heterocycle; R1 = H, C1-8alkanyl, C2-8alkenyl, and C2-8alkynyl; R2 = H, C1-8alkanyl, C2-8alkenyl, C2-8alkynyl, C6-10aryl, and C1-8cycloalkanyl, some of which are optionally substituted; R3 = H, C1-8alkanyl, halo1-3(C1-8)alkanyl, C3-8cycloalkanyl, etc.; R4 = 1-3 substituents selected from H, C1-6alkanyl, aryl(C2-6)alkynyl, amino, heterocyclyl, etc.; R5 = 1-2 substituents selected from H, C1-6alkanyl, C2-6alkenyl, CN, OH, etc.; R6 = 1-4 substituents selected from H, C1-6alkanyl, C2-6alkenyl, C1-6alkanyloxy, NH2, etc.; Y = O or S; and Z = O, S, NH, N(C1-6alkanyl), N(OH), N(OC1-6alkanyl), or N(phenyl)). Pharmaceutical and veterinary compns. and methods of treating mild to severe pain and various diseases using compds. of the invention are also described. Methods of preparing I are exemplified. For example, II was prepared from 4-bromo-2-phenoxybenzonitrile in 7 steps via the intermediate 9-oxo-9H-xanthene-3-carboxylic acid. In rat brain δ -opioid receptor binding assays, II had a K_i of 15 nM.
- IT 893416-57-4P, 1-[4-(3-Bromo-5-methoxythioxanthen-9-ylidene)piperidin-1-yl]-2,2,2-trifluoroethanone
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of tricyclic delta-opioid modulators for treating pain and other diseases)
- RN 893416-57-4 CAPLUS
- CN Piperidine, 4-(3-bromo-5-methoxy-9H-thioxanthen-9-ylidene)-1-(trifluoroacetyl)- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:633456 CAPLUS

DN 139:154954

TI Medicinal compositions containing gabapentin or pregabalin and N-type calcium channel antagonist

IN Iwayama, Satoshi; Koganei, Hajime; Fujita, Shinichi; Takeda, Tomoko; Yamamoto, Hiroshi; Niwa, Seiichi

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 154 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2003066040	A1	20030814	WO 2003-JP1163	20030205	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	AU 2003207219	A1	20030902	AU 2003-207219	20030205	
	EP 1481673	A1	20041201	EP 2003-703174	20030205	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK		
	US 2005009814	A1	20050113	US 2004-911633	20040805	
PRAI	JP 2002-28208	A	20020205			
	JP 2002-111068	A	20020412			
	JP 2002-317480	A	20021031			
	WO 2003-JP1163	W	20030205			

OS MARPAT 139:154954

AB Disclosed are medicinal compns. useful as preventives/remedies for pain which comprise gabapentin, pregabalin or pharmaceutically acceptable salts thereof combined with N-type calcium channel antagonists or pharmaceutically acceptable salts thereof having specified structures. A compound N-[3-[4-(5H-dibenzo[a,d][7,1]annulene-5-ylidene)-1-piperidinyll]-3-oxopropyl]-2,2-dimethylpropanamide (I) was prepared. The analgesic effect of oral administration of gabapentin 100 mg/kg combined with the compound I 3 mg/kg in pain rat model was examined.

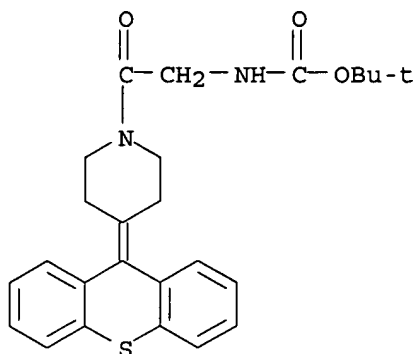
IT 500894-64-4P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(medicinal compns. containing gabapentin or pregabalin and N-type calcium channel antagonist)

RN 500894-64-4 CAPLUS

CN Carbamic acid, [2-oxo-2-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



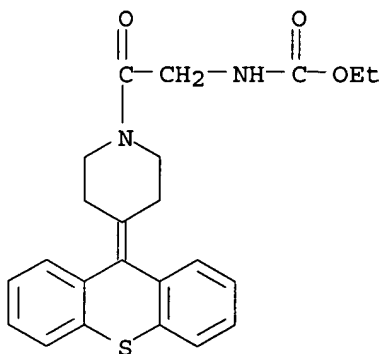
IT 500894-66-6P 500895-32-9P 500895-33-0P
500895-39-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(medicinal compns. containing gabapentin or pregabalin and N-type calcium channel antagonist)

RN 500894-66-6 CAPLUS

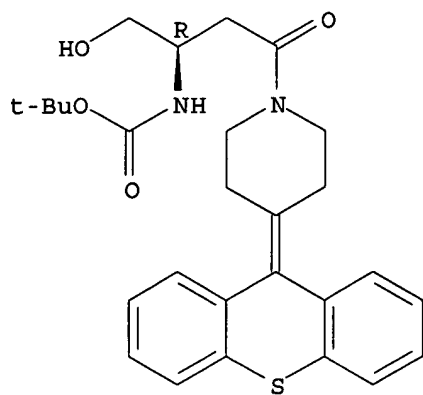
CN Carbamic acid, [2-oxo-2-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 500895-32-9 CAPLUS

CN Carbamic acid, [(1R)-1-(hydroxymethyl)-3-oxo-3-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

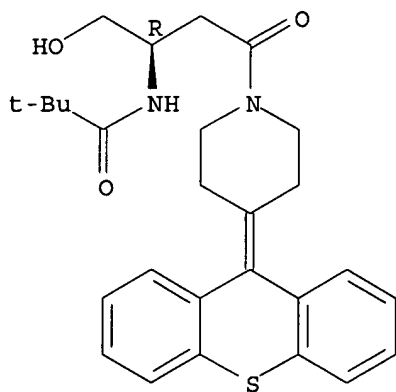
Absolute stereochemistry.



RN 500895-33-0 CAPLUS

CN Propanamide, N-[(1R)-1-(hydroxymethyl)-3-oxo-3-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]propyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

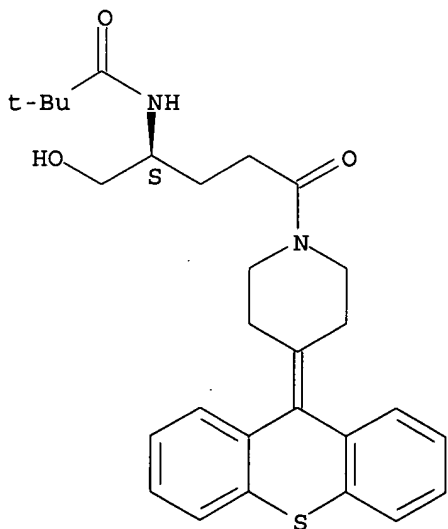
Absolute stereochemistry.



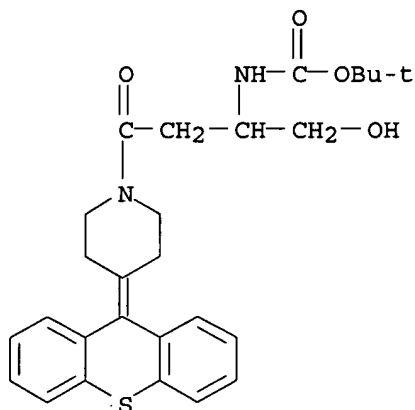
RN 500895-39-6 CAPLUS

CN Propanamide, N-[(1S)-1-(hydroxymethyl)-4-oxo-4-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]butyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

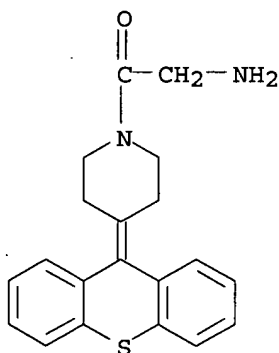
Absolute stereochemistry.



IT 572923-88-7
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (medicinal compns. containing gabapentin or pregabalin and N-type calcium
 channel antagonist)
 RN 572923-88-7 CAPLUS
 CN Carbamic acid, [1-(hydroxymethyl)-3-oxo-3-[4-(9H-thioxanthen-9-ylidene)-1-
 piperidinyl]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



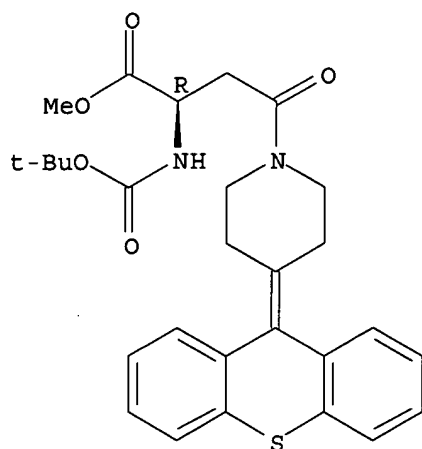
IT 500894-98-4P 500895-61-4P 500895-62-5P
 500895-63-6P 500895-64-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of N-type calcium channel antagonist for medicinal compns.
 containing gabapentin therewith)
 RN 500894-98-4 CAPLUS
 CN Piperidine, 1-(aminoacetyl)-4-(9H-thioxanthen-9-ylidene)-,
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 500895-61-4 CAPLUS
 CN 1-Piperidinebutanoic acid, α-[[[(1,1-dimethylethoxy)carbonyl]amino]-
 γ-oxo-4-(9H-thioxanthen-9-ylidene)-, methyl ester, (αR)- (9CI)
 (CA INDEX NAME)

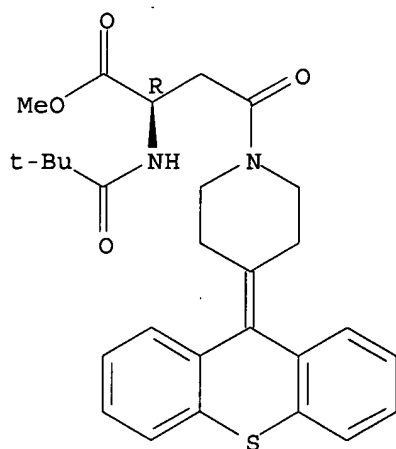
Absolute stereochemistry.



RN 500895-62-5 CAPLUS

CN 1-Piperidinebutanoic acid, α -[(2,2-dimethyl-1-oxopropyl)amino]- γ -oxo-4-(9H-thioxanthen-9-ylidene)-, methyl ester, (α R)- (9CI)
(CA INDEX NAME)

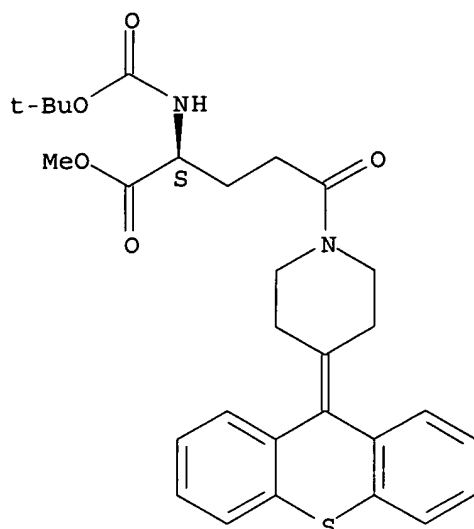
Absolute stereochemistry.



RN 500895-63-6 CAPLUS

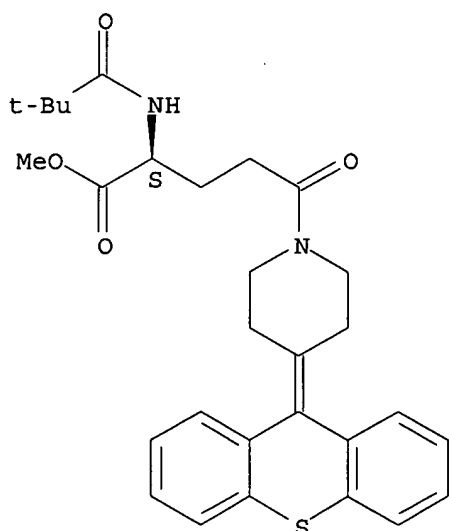
CN 1-Piperidinepentanoic acid, α -[[[(1,1-dimethylethoxy)carbonyl]amino]-8-oxo-4-(9H-thioxanthen-9-ylidene)-], methyl ester, (α S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 500895-64-7 CAPLUS
 CN 1-Piperidinepentanoic acid, α-[(2,2-dimethyl-1-oxopropyl)amino]-
 8-oxo-4-(9H-thioxanthen-9-ylidene)-, methyl ester, (αS)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



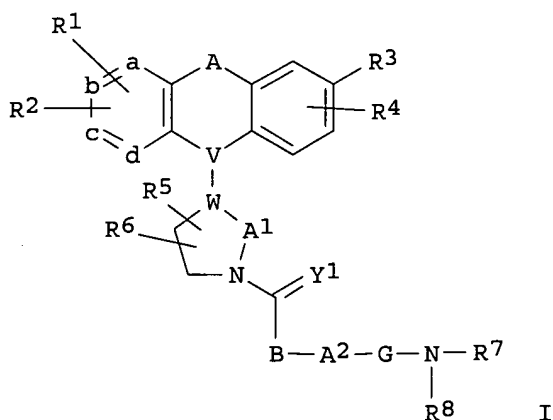
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:173572 CAPLUS
 DN 138:221602
 TI Preparation of diarylalkene and diarylalkane derivatives as N-type calcium
 channel antagonists
 IN Yamamoto, Takashi; Niwa, Seiji; Otani, Kayo; Ohno, Seiji; Koganei, Hajime;
 Iwayama, Satoshi; Takahara, Akira; Ono, Yukitsugu; Takeda, Tomoko; Fujita,
 Shinichi; Moki, Keiko
 PA Ajinomoto Co., Inc., Japan; et al.
 SO PCT Int. Appl., 158 pp.
 CODEN: PIXXD2
 DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003018538	A1	20030306	WO 2002-JP8809	20020830
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004167118	A1	20040826	US 2004-787175	20040227
PRAI	JP 2001-263718	A	20010831		
	JP 2002-14387	A	20020123		
	JP 2002-111067	A	20020412		
	WO 2002-JP8809	A1	20020830		
OS	MARPAT 138:221602				
GI					



AB The title compds. I [A represents CH:CH, etc.; a, b, c, and d each represents CH, etc.; R1, R2, R3, R4, R5, and R6 each represents hydrogen, etc.; V-W represents C:C, etc.; A1 is (CH2)_n; n is 0 to 3; Y1 represents oxygen, etc.; B represents (CH2)_vCHR₂₁ (v is 0 to 3 and R₂₁ represents hydrogen, lower alkyl, etc.), etc.; G represents CO, a covalent bond, etc.; A2 is (CH2)_m; m is 0 to 6; and R7 and R8 each represents hydrogen, lower alkyl, COR_{18a}, COOR₂₀ (R_{18a} and R₂₀ each represents lower alkyl, etc.), etc.] are prepared I are selective N-type calcium channel antagonists. In an in vitro test, compds. of this invention at 10 μM gave 67% to 85% antagonism of N-type calcium channel.

IT 500894-64-4P 500894-66-6P 500895-32-9P

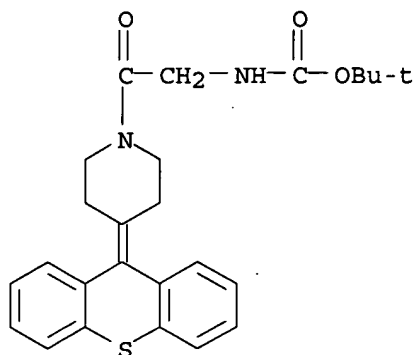
500895-33-0P 500895-39-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of diarylalkene and diarylalkane derivs. as N-type calcium channel inhibitors)

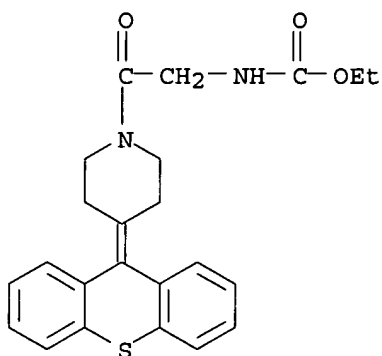
RN 500894-64-4 CAPLUS

CN Carbamic acid, [2-oxo-2-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 500894-66-6 CAPLUS

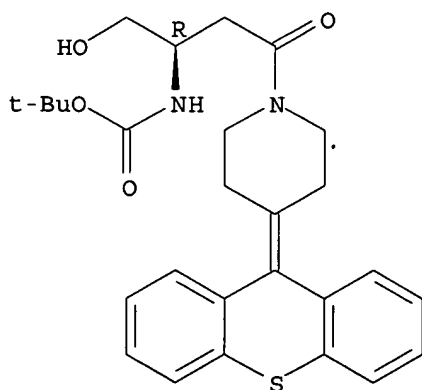
CN Carbamic acid, [2-oxo-2-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]ethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 500895-32-9 CAPLUS

CN Carbamic acid, [(1R)-1-(hydroxymethyl)-3-oxo-3-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

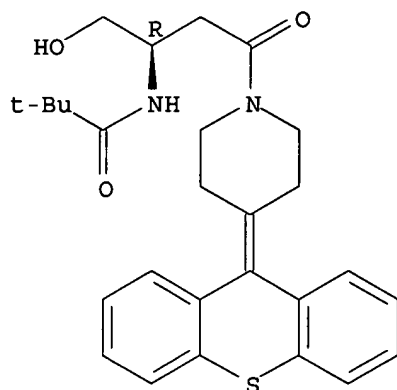
Absolute stereochemistry.



RN 500895-33-0 CAPLUS

CN Propanamide, N-[(1R)-1-(hydroxymethyl)-3-oxo-3-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]propyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

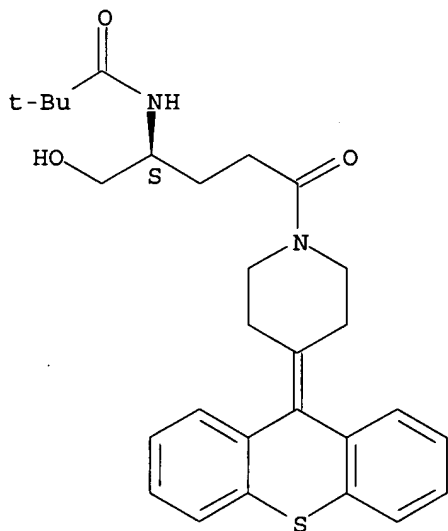
Absolute stereochemistry.



RN 500895-39-6 CAPLUS

CN Propanamide, N-[(1S)-1-(hydroxymethyl)-4-oxo-4-[4-(9H-thioxanthen-9-ylidene)-1-piperidinyl]butyl]-2,2-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 500894-98-4P 500895-61-4P 500895-62-5P

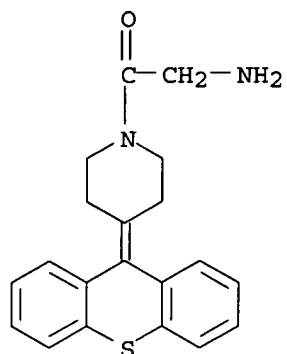
500895-63-6P 500895-64-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of diarylalkene and diarylalkane derivs. as N-type calcium channel inhibitors)

RN 500894-98-4 CAPLUS

CN Piperidine, 1-(aminoacetyl)-4-(9H-thioxanthen-9-ylidene)-, monohydrochloride (9CI) (CA INDEX NAME)

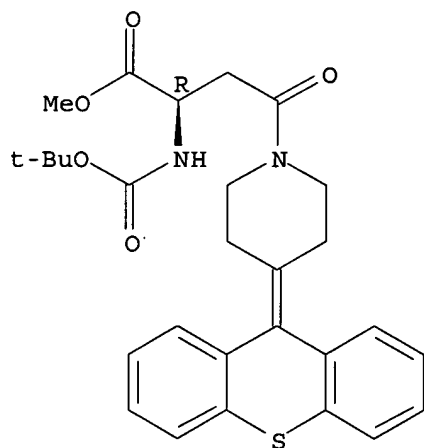


● HCl

RN 500895-61-4 CAPLUS

CN 1-Piperidinebutanoic acid, α-[[[(1,1-dimethylethoxy)carbonyl]amino]-
γ-oxo-4-(9H-thioxanthen-9-ylidene)-, methyl ester, (αR)- (9CI)
(CA INDEX NAME)

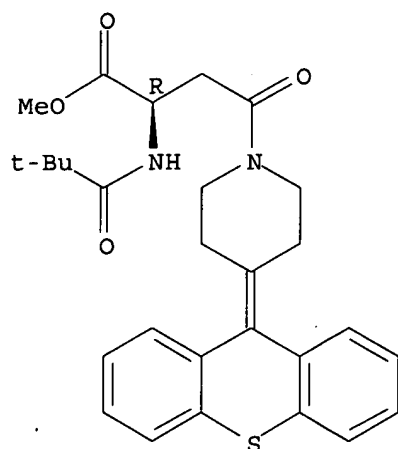
Absolute stereochemistry.



RN 500895-62-5 CAPLUS

CN 1-Piperidinebutanoic acid, α-[(2,2-dimethyl-1-oxopropyl)amino]-
γ-oxo-4-(9H-thioxanthen-9-ylidene)-, methyl ester, (αR)- (9CI)
(CA INDEX NAME)

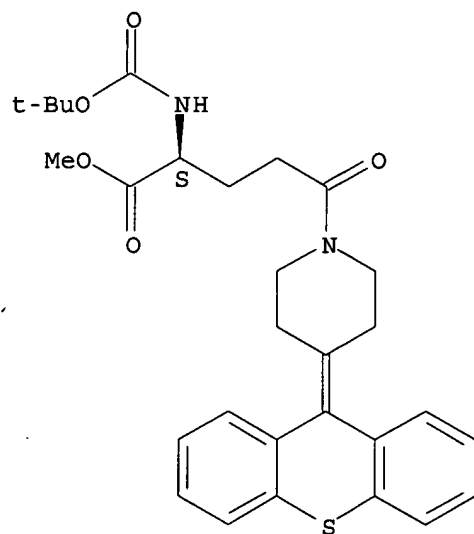
Absolute stereochemistry.



RN 500895-63-6 CAPLUS

CN 1-Piperidinepentanoic acid, α -[[[(1,1-dimethylethoxy)carbonyl]amino]-
8-oxo-4-(9H-thioxanthen-9-ylidene)-, methyl ester, (α S)- (9CI)
(CA INDEX NAME)

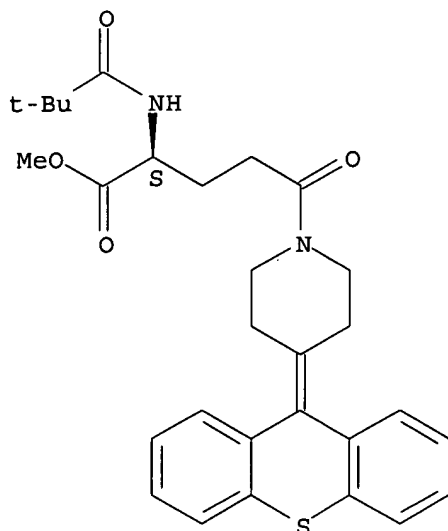
Absolute stereochemistry.



RN 500895-64-7 CAPLUS

CN 1-Piperidinepentanoic acid, α -[(2,2-dimethyl-1-oxopropyl)amino]-
8-oxo-4-(9H-thioxanthen-9-ylidene)-, methyl ester, (α S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



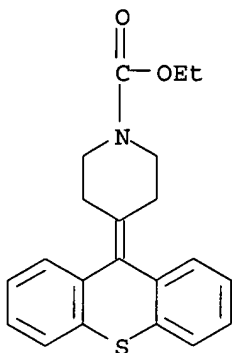
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:349658 CAPLUS
DN 127:75517
TI Synthesis, affinity at 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C} serotonin receptors and structure-activity relationships of a series of cyproheptadine analogs
AU Honrubia, Maria Angeles; Rodriguez, Jesus; Dominguez, Rosa; Lozoya, Estrella; Manaut, Francesc; Seijas, Julio A.; Villaverde, Maria Carmen; Calleja, Jose M.; Cadavid, Maria Isabel; et al.
CS Department of Pharmacology, Organic and Physical Chemistry, University of Santiago, Santiago de Compostela, E-15706, Spain
SO Chemical & Pharmaceutical Bulletin (1997), 45(5), 842-848
CODEN: CPBTAL; ISSN: 0009-2363
PB Pharmaceutical Society of Japan
DT Journal
LA English
OS CASREACT 127:75517
AB Cyproheptadine (Cyp) is a drug that shows high affinity for type 2(5-HT₂)receptors. The authors studied a series of compds. obtained by modification of the tricyclic system of Cyp (dibenzocycloheptadiene ring) to make the thioxanthene, xanthene, dihydrodibenzocycloheptadiene, di-Ph, fluorene, and phenylmethyl analogs. Their activities at the rat cerebral cortex 5-HT_{2A} receptor were (pK_i):8.80 (Cyp), 8.60 (thioxanthene analog), 8.40 (xanthene analog), 8.05 (dihydrodibenzocycloheptadiene analog), 7.87 (di-Ph analog), 6.70 (fluorene analog) and 6.45 (phenylmethyl analog); those at the rat stomach fundus 5-HT_{2B} receptor (pA₂) were: 9.14 (Cyp), 8.49 (thioxanthene analog), 7.58 (xanthene analog), 7.02 (dihydrodibenzocycloheptadiene analog), 6.07 (di-Ph analog), and undetectable (fluorene analog, phenylmethyl analog); and those at the pig choroidal plexus 5-HT_{2C} receptor (pK_i) were: 8.71 (Cyp), 8.68 (thioxanthene analog), 8.58 (xanthene analog), 7.95 (dihydrodibenzocycloheptadiene analog), 7.57 (di-Ph analog), 6.98 (fluorene analog) and 6.63 (phenylmethyl analog). The slopes did not differ significantly from unity. The compds. exhibited the same order of activities at every type of receptor, and the most active mols. presented certain steric (butterfly conformation of the tricyclic system) and electrostatic (proton affinity on the top of the central rings) patterns. It is concluded that the activity of cyproheptadine derivs. at 5-HT₂ receptors is related to these mol. features, which make feasible a common disposition to interact with all three 5-HT₂ subtypes.
IT 138248-26-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; synthesis and affinity at 5-HT2A and 5-HT2B and 5-HT2C serotonin receptors and structure-activity relationships of a series of cyproheptadine analogs)

RN 138248-26-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-(9H-thioxanthen-9-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:638596 CAPLUS

DN 123:286084

TI Dibenzocycloheptenylydenepiperidine, dibenzocycloheptenylpiperazine, and heterocyclic analogs as PAF antagonists and antihistaminics

IN Wong, Jesse K.; Piwinski, John J.; Green, Michael J.

PA USA

SO U.S., 29 pp. Cont.-in-part of U.S. Ser. No. 595,329, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5416087	A	19950516	US 1993-39072	19930407
	WO 9206970	A1	19920430	WO 1991-US7170	19911008
	W:	AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, PL, RO, SD, SU, US			
	RW:	AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG			
PRAI	US 1990-595329	B2	19901010		
	WO 1991-US7170	W	19911008		
OS	MARPAT 123:286084				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Bis-benzo cyclohepta piperidine, piperidylydene and piperazine compds. I
[L = N or N+O-, Z = O or S, Y = [C(Ra)2]mX[C(Ra)2]n or II, m and n are integers 0, 1, 2, 3 such that m + n = 0 to 3; when m + n = 1, X = e.g., O, S(O)e where e = 0, 1, or 2; when m + n = 2, X = e.g., O, S(O)e, e = 0-2; when m + n = 3, X = a direct bond; when m + n = 0, X can be any substituent for m + n = 1 and also a direct bond, cyclopropylene,

propenylene; each Ra may be the same or different and each independently represents, e.g., H, C1-6-alkyl; the dotted line between the indicated carbon atoms 5 and 6 represents an optional double bond, such that when a double bond is present, A and B each independently represent R11, OR13, halo or OC(O)R11, and when no double bond is present between carbon atoms 5 and 6, A and B each independently represent H2; (OR13)2; (alkyl and H); (alkyl)2; [H and OC(O)R11], (H and OR11); :O or :NOR14; R1, R2, R3, R4 = e.g., H, halo, CF3; R5, R6 = e.g., H, alkyl, aryl; R7, R8, R9 = e.g., H, halo, CF3; R11 = H, alkyl, aryl; R13 = alkyl, aryl; R14 = H, alkyl; T = CH, C, or N with the dotted line attached to T representing a double bond when T is C and being absent when T is CH or N] and pharmaceutically acceptable salts thereof are disclosed, which possess anti-allergic and/or anti-inflammatory activity. Methods for preparing and using the compds. are also described. Thus, e.g., coupling of 4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-ylidene)piperidine (III, preparation given) with isonicotinic acid N-oxide afforded the pyridinylcarbonyl N-oxide derivative IV which demonstrated in vitro PAF antagonism IC50 = 1.2 μ M, and in vivo inhibition of PAF-induced bronchospasm in guinea pigs of 82% at 3 mg/kg. Pharmaceutical formulations were given.

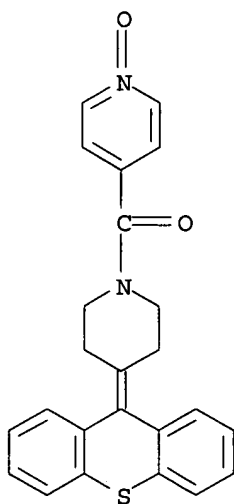
IT 142714-87-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(dibenzocycloheptenylydenepiperidine, dibenzocycloheptenylylpiperazine, and heterocyclic analogs as PAF antagonists and antihistaminics)

RN 142714-87-2 CAPLUS

CN Piperidine, 1-[(1-oxido-4-pyridinyl)carbonyl]-4-(9H-thioxanthen-9-ylidene)-(9CI) (CA INDEX NAME)



L6 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1993:183395 CAPLUS

DN 118:183395

TI Novel quinolines, their preparations, and anticancer activity enhancers containing the quinolines

IN Fukazawa, Nobuyuki; Suzuki, Tsuneshi; Otsuka, Kengo; Yano, Osamu; Sato, Wakao; Tsuruo, Takashi

PA Mitsui Toatsu Chemicals, Inc., Japan; Japanese Foundation for Cancer Research

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04235983	A	19920825	JP 1991-3673	19910117
	JP 2579701	B2	19970212		
PRAI	JP 1991-3673		19910117		

OS MARPAT 118:183395

GI For diagram(s), see printed CA Issue.

AB Anticancer activity enhancers contain quinolines I [A = C(R2)(R3)R4, Q; B = condensed benzene ring or heterocycle; R1, R2 = H, OH; R1R2 may form double bond; R3, R4 = substituted Ph, heterocycle; R5 = H, halo, lower alkyl, lower alkoxy, CF3, (substituted) amino, CN, NO2, OH, CO2H, alkoxy carbonyl; Y = (CH2)2 (when R5 ≠ 0), NHCO, NHCH2, CH(OH)CH(OH), SCH2, S] or their salts, prepared by reacting (2,3-epoxypropoxy)quinoline with amines under heating and in the presence of bases.
4-[Hydroxy-bis(4-chlorophenyl)methyl]-N-methylpiperidine (4.0 g) and 4.7 g K2CO3 were suspended in 1,1,2-trichloroethane and reacted with 7.2 g 2,2,2-trichloroethyl chloroformate by refluxing for 13 h to give 4.9 g 4-[hydroxy-bis(4-chlorophenyl)methyl]-N-(2,2,2-trichloroethoxycarbonyl)piperidine. The product (2 g) was stirred with 4.0 g Zn powder in THF-1 M aqueous NH4Cl for 8 h, filtered, and the filtrate was concentrated and heated with 1.0 g 5-(2,3-epoxypropoxy)quinoline and Et3N

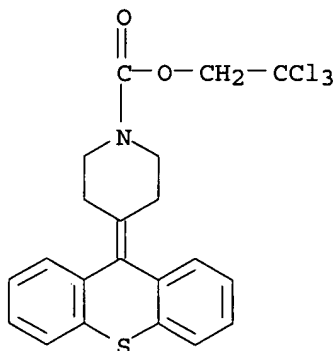
in isopropanol at 60° for 1 h to give 0.5 g 5-[3-[4-(hydroxy-bis(4-chlorophenyl)methyl)piperidin-1-yl]-2-hydroxypropoxy]quinoline (II).
Adriamycin-resistant human ovary cancer cell line 2780AD was cultured in RPMI-1640 medium containing 20 nM vincristine and bovine fetal serum in the presence of 1.0 µg/mL II at 37° for 2 h to show 445% vincristine accumulation in the cells, vs. 100%, for the control.

IT 145298-50-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reactino of)

RN 145298-50-6 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-(9H-thioxanthen-9-ylidene)-,
2,2,2-trichloroethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:511647 CAPLUS

DN 117:111647

TI Preparation of dibenzocycloheptylidene(pyridinylcarbonyl)piperidine
N-oxides and related compounds as platelet-activating factor (PAF)
antagonists and antihistamines

IN Wong, Jesse K.; Piwinski, John J.; Green, Michael J.

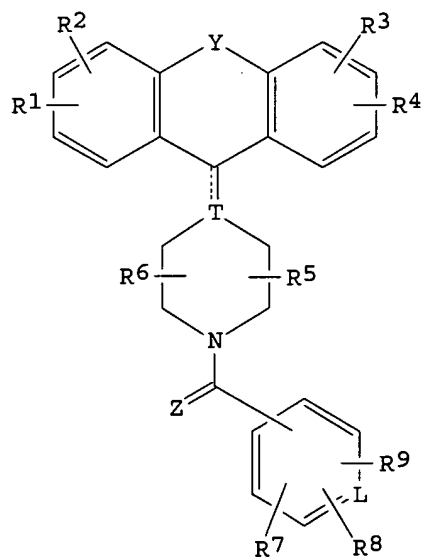
PA Schering Corp., USA

SO PCT Int. Appl., 71 pp.

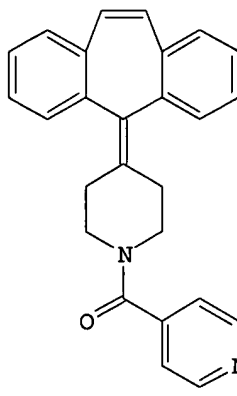
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 2

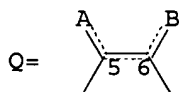
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9206970	A1	19920430	WO 1991-US7170	19911008
	W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, PL, RO, SD, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	CA 2093646	A1	19920411	CA 1991-2093646	19911008
	AU 9188540	A	19920520	AU 1991-88540	19911008
	EP 552245	A1	19930728	EP 1991-918529	19911008
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 05506249	T	19930916	JP 1991-517936	19911008
	US 5416087	A	19950516	US 1993-39072	19930407
PRAI	US 1990-595329	A2	19901010		
	WO 1991-US7170	A	19911008		
OS	MARPAT 117:111647				
GI					



I



II



AB The title compds. [I; L = N, N+O-; Z = O, S; Y = (CRa2)mX(CRa2)n, (un)saturated bridge Q; dotted line = optional bond; when bond present then A, B = R11, OR13, halo, etc., when bond absent then A, B = H2, (OR13)2, (alkyl and H), (alkyl)2, etc.; m, n = 0-3, m+n = 0-3; X = O, SO0-2, NR14, CONR14, NR14CO, CSNR14, NR14CS, CO2, O2C, bond, cyclopropylene, propylene, depending on the value of m+n; R14 = H, alkyl; Ra = H, C1-6 alkyl; R1-R4 = H, halo CF3, OR11, NO2, cyano, aryl, (un)substituted alkyl, -alkenyl, etc.; R1R2 = benzo; R3R4 = benzo; R5, R6 = H, aryl, (un)substituted alkyl; R5R6 = O, S; R7-R9 = H, halo, CF3, COR11, SR11, NO2, aryl, etc.; R11 = H, alkyl, aryl; R13 = alkyl, aryl; T = CH, C, N; dotted line attached to T = optional double bond] or their pharmaceutically acceptable salts or solvates, useful as antiallergics and antiinflammatories, were prepared A

solution of 412 mg 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide HCl in 5 mL CH₂Cl₂ was added dropwise to a mixture of 422 mg 4-(5H-dibenzo[a,d]cyclohept-5-ylidene)piperidine, 234 mg isonicotinic acid N-oxide, and 274 mg 1-hydroxybenzotriazole hydrate in 5 mL CH₂Cl₂ at -15° under N and the whole allowed to warm to the ambient temp and stirred overnight to give 445 mg title compound II. The latter antagonized PAF-induced human blood platelet aggregation with IC₅₀ = 2 µM, vs. 0.61 µM for the known PAF antagonist 8-chloro-6,11-dihydro-11-(1-acetyl-4-piperidylidene)-5H-benzo[5,6]cyclohepta[1,2-b]pyridine as a pos. control.

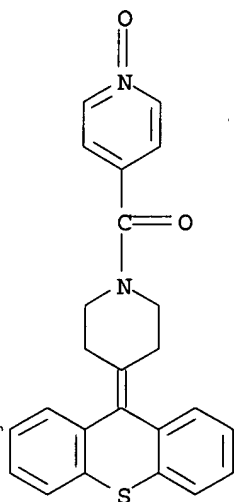
IT 142714-87-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as platelet-activating factor antagonist and antihistamine)

RN 142714-87-2 CAPLUS

CN Piperidine, 1-[(1-oxido-4-pyridinyl)carbonyl]-4-(9H-thioxanthen-9-ylidene)-(9CI) (CA INDEX NAME)



L6 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:83546 CAPLUS

DN 116:83546

TI Preparation of ω-[4-[(hetero)arylidene]piperidino]alkanoates as antiallergic and antihistaminic agents

IN Ito, Yasuo; Kato, Hideo; Koshinaka, Eiichi; Ogawa, Nobuo; Nishino, Hiroyuki; Sakaguchi, Jun

PA Hokuriku Pharmaceutical Co., Ltd., Japan

SO Eur. Pat. Appl., 28 pp.

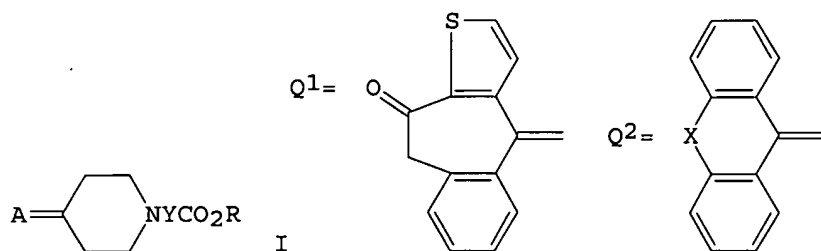
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 451772	A1	19911016	EP 1991-105567	19910409
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
	JP 03294277	A	19911225	JP 1990-93968	19900411
	JP 04001193	A	19920106	JP 1990-97522	19900416
	CA 2038417	A1	19911012	CA 1991-2038417	19910315
PRAI	JP 1990-93968	A	19900411		
	JP 1990-97522	A	19900416		
OS	MARPAT 116:83546				
GI					

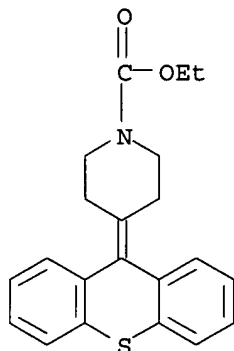


AB Title compds. [I; A = (hetero)arylidene groups Q1, Q2; R = H, alkyl; X = CH₂S, S; Y = alkylene] were prepared Thus, 4-(9H-thioxanthen-9-cyclidene)piperidine (preparation given) was condensed with Br(CH₂)₃CO₂Et to give, after saponification, I (A = Q2, R = H, X = S) [II; Y = (CH₂)₃]. II (Y = CH₂CH₂) gave 96% inhibition of passive cutaneous anaphylaxis in rats at 1 mg/kg orally.

IT 138248-26-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of antiallergics and antihistaminics)

RN 138248-26-7 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-(9H-thioxanthen-9-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1987:213764 CAPLUS

DN 106:213764

TI Preparation of thioxanthene amino alcohol and its oxalate salt

IN Protiva, Miroslav; Kmonicek, Vojtech

PA Czech.

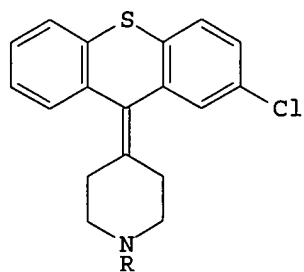
SO Czech., 3 pp.
 CODEN: CZXXA9

DT Patent

LA Czech

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 235148	B1	19850515	CS 1984-766	19840202
PRAI	CS 1984-766		19840202		
OS	CASREACT 106:213764				
GI					



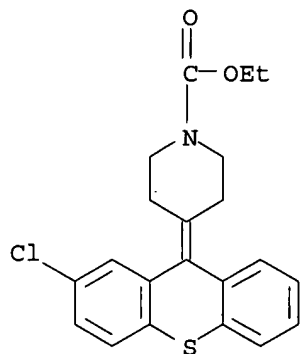
- I, R=Me
 II, R=CO₂Et
 III, R=H
 IV, R=CH₂CH₂OH

AB Thioxanthene I was demethylated with ClCO₂Et in boiling C₆H₆, the resulting crude II (79%) was refluxed at 130° in alc. KOH, and 69% oily III was extracted with C₆H₆. Boiling III with BrCH₂CH₂OH in Me₂CO containing K₂CO₃ gave 79% title compound IV which was converted to crystalline H oxalate salt. Both compds. had tranquilizing activity without cataleptic or extrapyramidal symptom side effects.

IT 94923-45-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deacylation of)

RN 94923-45-2 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-(2-chloro-9H-thioxanthen-9-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1986:420530 CAPLUS

DN 105:20530

TI Thioxanthenes used as pesticides

IN Traber, Walter; Fischer, Hanspeter

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 33 pp.
 CODEN: EPXXDW

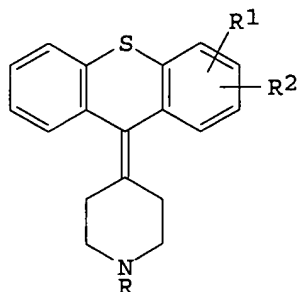
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 179020	A2	19860423	EP 1985-810466	19851014
	EP 179020	A3	19870325		
	R: BE, CH, DE, FR, GB, IT, LI, NL				
	US 4777177	A	19881011	US 1985-786380	19851010
	BR 8505222	A	19860729	BR 1985-5222	19851018
	JP 61106573	A	19860524	JP 1985-234387	19851019

PRAI CH 1984-5010 A 19841019
 CH 1984-5011 A 19841019
 CH 1985-3830 A 19850905
 OS MARPAT 105:20530
 GI



I

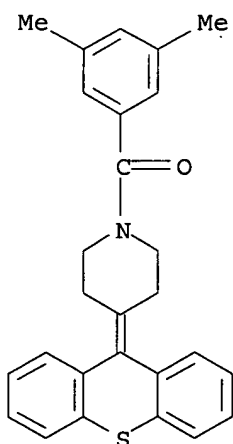
AB The thioxanthenylidenepiperidines I (R = H, alkyl, alkenyl, alkynyl, CN, etc.; R1,R2 = H, halo, alkyl, etc.) are prepared as acaricides, insecticides, and fungicides. Thus, 4-(2-chlorothioxanthen-9-ylidene)piperidine was refluxed with NaH in THF for 22 h, followed by the addition of EtI and refluxing for 24 h to give I (R = Et, R1 = 2-Cl, R2 = H) (II). *Lucilia sericata* Reared on a medium containing 0.1% II showed 80-100% mortality.

IT 102905-77-1P 102905-82-8P 102905-83-9P
 102905-84-0P 102905-85-1P 102905-86-2P
 102905-87-3P 102905-88-4P 102905-89-5P
 102905-90-8P 102905-95-3P 102905-96-4P
 102905-97-5P 102925-95-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as pesticides)

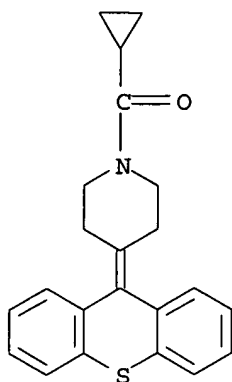
RN 102905-77-1 CAPLUS

CN Piperidine, 1-(3,5-dimethylbenzoyl)-4-(9H-thioxanthen-9-ylidene)- (9CI)
 (CA INDEX NAME)

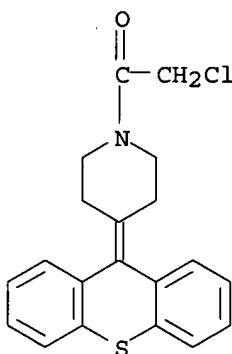


RN 102905-82-8 CAPLUS

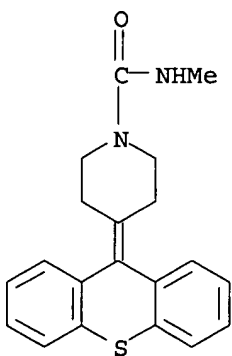
CN Piperidine, 1-(cyclopropylcarbonyl)-4-(9H-thioxanthen-9-ylidene)- (9CI)
 (CA INDEX NAME)



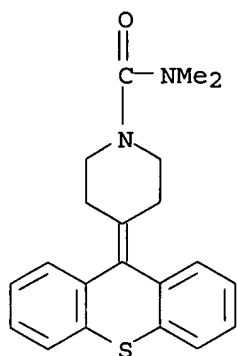
RN 102905-83-9 CAPLUS
 CN Piperidine, 1-(chloroacetyl)-4-(9H-thioxanthen-9-ylidene)- (9CI) (CA
 INDEX NAME)



RN 102905-84-0 CAPLUS
 CN 1-Piperidinecarboxamide, N-methyl-4-(9H-thioxanthen-9-ylidene)- (9CI) (CA
 INDEX NAME)

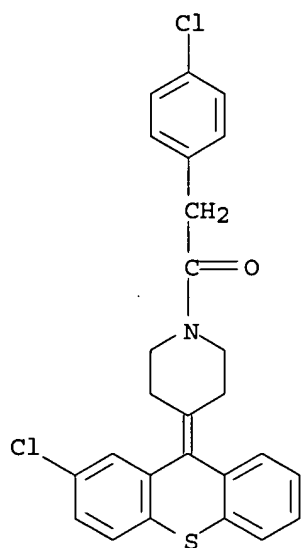


RN 102905-85-1 CAPLUS
 CN 1-Piperidinecarboxamide, N,N-dimethyl-4-(9H-thioxanthen-9-ylidene)- (9CI)
 (CA INDEX NAME)



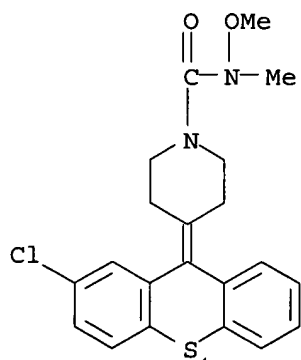
RN 102905-86-2 CAPLUS

CN Piperidine, 1-[(4-chlorophenyl)acetyl]-4-(2-chloro-9H-thioxanthen-9-ylidene)- (9CI) (CA INDEX NAME)



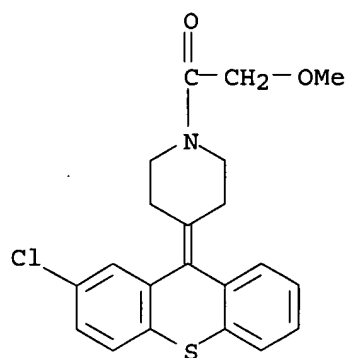
RN 102905-87-3 CAPLUS

CN 1-Piperidinecarboxamide, 4-(2-chloro-9H-thioxanthen-9-ylidene)-N-methoxy-N-methyl- (9CI) (CA INDEX NAME)



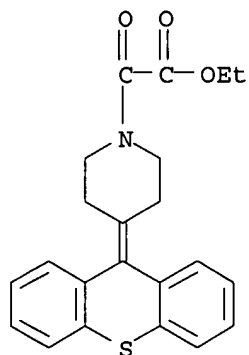
RN 102905-88-4 CAPLUS

CN Piperidine, 4-(2-chloro-9H-thioxanthen-9-ylidene)-1-(methoxyacetyl)- (9CI) (CA INDEX NAME)



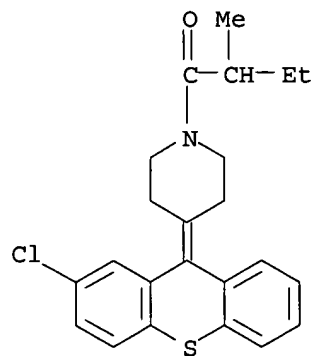
RN 102905-89-5 CAPLUS

CN 1-Piperidineacetic acid, α -oxo-4-(9H-thioxanthen-9-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



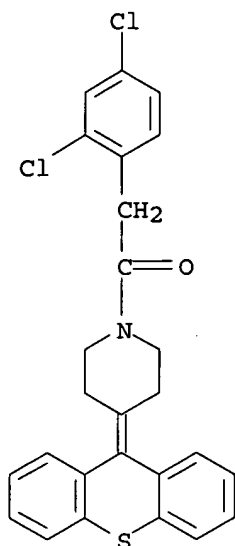
RN 102905-90-8 CAPLUS

CN Piperidine, 4-(2-chloro-9H-thioxanthen-9-ylidene)-1-(2-methyl-1-oxobutyl)-(9CI) (CA INDEX NAME)



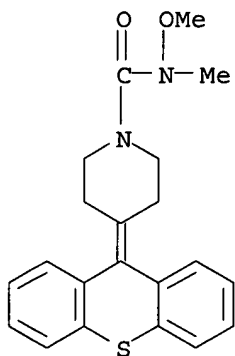
RN 102905-95-3 CAPLUS

CN Piperidine, 1-[(2,4-dichlorophenyl)acetyl]-4-(9H-thioxanthen-9-ylidene)-(9CI) (CA INDEX NAME)



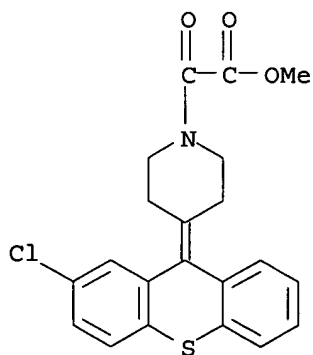
RN 102905-96-4 CAPLUS

CN 1-Piperidinecarboxamide, N-methoxy-N-methyl-4-(9H-thioxanthen-9-ylidene)-
(9CI) (CA INDEX NAME)



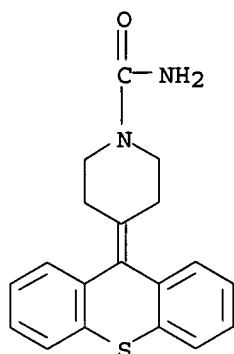
RN 102905-97-5 CAPLUS

CN 1-Piperidineacetic acid, 4-(2-chloro-9H-thioxanthen-9-ylidene)- α -oxo-
, methyl ester (9CI) (CA INDEX NAME)

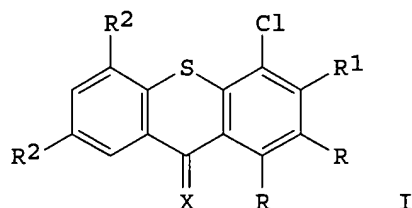


RN 102925-95-1 CAPLUS

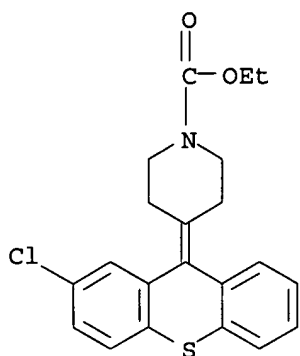
CN 1-Piperidinecarboxamide, 4-(9H-thioxanthen-9-ylidene)- (9CI) (CA INDEX
NAME)



L6 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1985:149047 CAPLUS
 DN 102:149047
 TI Thioxanthene derivatives of pharmacological interest: 1,2,4-trichloro and 2,4,5,6-tetrachloro derivatives of 9-[3-(dimethylamino)propylidene]thioxanthene
 AU Bartl, Vaclav; Kmonicek, Vojtech; Sedivy, Zdenek; Svatek, Emil; Protiva, Jiri; Protiva, Miroslav
 CS Res. Inst. Pharm. Biochem., Prague, 130 60/3, Czech.
 SO Collection of Czechoslovak Chemical Communications (1984), 49(10), 2295-308
 CODEN: CCCCAX; ISSN: 0366-547X
 DT Journal
 LA English
 OS CASREACT 102:149047
 GI

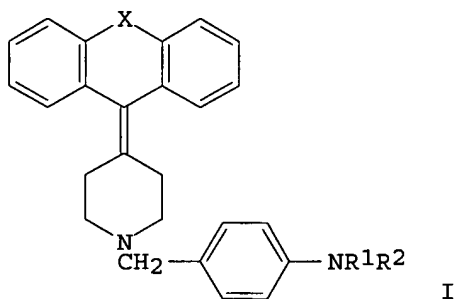


AB 2,3-Cl₂C₆H₃SH and 2,4,5-Cl₃C₆H₂SH underwent substitution reactions with 2,3,5-ICl₂C₆H₂CO₂H and 2-IC₆H₄CO₂H, resp., and the resulting acids were cyclized to give thioxanthenes I (X = O, R = H, R₁ = R₂ = Cl, R = Cl, R₁ = R₂ = H). Grignard reaction of these ketones with Me₂N(CH₂)₃Cl afforded amino alcs. which were transformed by acid catalyzed dehydration to the title compds. I [X = Me₂NCH₂CH₂CH₂, R = H, R₁ = R₂ = Cl (II), R = Cl, R₁ = R₂ = H (III)]. 2-Chloro-9-[1-(2-hydroxyethyl)-4-piperidinyldene]thioxanthone (IV) was obtained by a modified synthesis. II is inactive in CNS effects but has high inhibitory activity toward gram-pos. microorganisms. IV is a mild tranquilizer.
 IT 94923-45-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and alkaline hydrolysis of)
 RN 94923-45-2 CAPLUS
 CN 1-Piperidinecarboxylic acid, 4-(2-chloro-9H-thioxanthen-9-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)

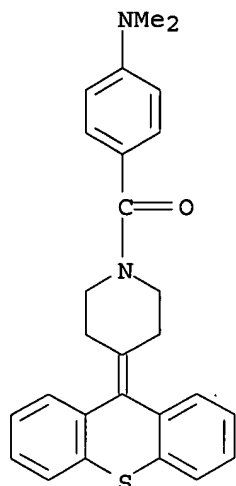


L6 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1983:53709 CAPLUS
 DN 98:53709
 TI Antiallergic or antihypertensive 1-piperidinylmethylbenzenamines
 IN Deason, James R.; Partis, Richard A.
 PA G.D. Searle and Co., USA
 SO U.S., 5 pp. Cont. of U.S. Ser. No. 156,248, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4356184	A	19821026	US 1981-247568	19810325
PRAI	US 1980-156248	A2	19800604		
OS	CASREACT 98:53709; MARPAT 98:53709				
GI					

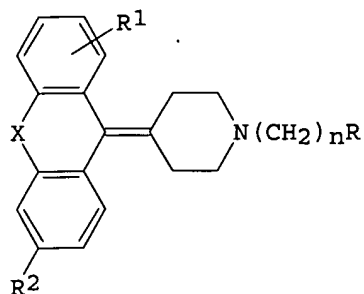


AB The title compds. I (R1, R2 = H, alkyl; X = S, CH2CH2) were prepared Thus, p-Me2NC6H4COCl was treated with 4-(9-thioxanthylidene)piperidine followed by reduction of the resulting methanone to give I (R1 = R2 = Me; X = S (II)). II had antiallergic activity at 0.2-50 mg/kg and was antihypertensive at 12.5-15 mg/kg.
 IT 84333-78-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reduction of)
 RN 84333-78-8 CAPLUS
 CN Piperidine, 1-[4-(dimethylamino)benzoyl]-4-(9H-thioxanthen-9-ylidene)-(9CI) (CA INDEX NAME)



L6 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1980:408028 CAPLUS
 DN 93:8028
 TI Xanthone and thioxanthone derivatives and compositions containing them
 IN Lassen, Niels; Bogeso, Klaus Peter; Hansen, Peter Bregnedal; Buus, Jorn
 Lasse Martin; Bigler, Allan Johan
 PA Kefalas A/S, Den.
 SO Eur. Pat. Appl., 51 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 5607	A1	19791128	EP 1979-300778	19790504
	EP 5607	B1	19831026		
	R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	US 4285956	A	19810825	US 1979-35735	19790503
	AT 5141	T	19831115	AT 1979-300778	19790504
	DK 7901901	A	19791113	DK 1979-1901	19790509
	ZA 7902250	A	19800827	ZA 1979-2250	19790509
	FI 7901503	A	19791113	FI 1979-1503	19790510
	AU 7946941	A	19791115	AU 1979-46941	19790510
	AU 522926	B2	19820701		
	NO 7901592	A	19791113	NO 1979-1592	19790511
	NO 150837	B	19840917		
	NO 150837	C	19850109		
	ES 480468	A1	19800701	ES 1979-480468	19790511
	CA 1127648	A1	19820713	CA 1979-327464	19790511
	JP 54154772	A	19791206	JP 1979-57640	19790512
	US 4275209	A	19810623	US 1979-106353	19791221
	US 4309429	A	19820105	US 1979-105985	19791221
PRAI	GB 1978-19310		19780512		
	US 1979-35735	A3	19790503		
	EP 1979-300778	A	19790504		
OS	MARPAT 93:8028				
GI					



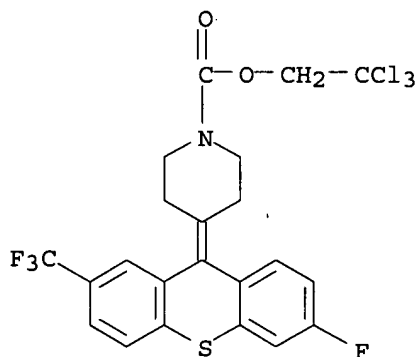
AB The neuroleptic compds. I (X = O, S; R = substituted cycloalkyl, optionally substituted heterocycle, containing O and/or N; R1 = halogen, alkyl, alkoxy, SMe, SO2Me, SO2NMe2, CF3, Ac; R2 = H, F, Me; n = 0-3) were prepared Thus Grignard reaction of 2-trifluoromethyl-6-fluoro-9-thioxanthone with 4-chloro-1-methylpiperidine and dehydration of the alc. gave I (R = H, R1 = 2-CF3, R2 = F, X = S, n = 1), which was treated with ClCO2CH2CCl3 and decarboxylated to give I (X = S, R = H, R1 = 2-CF3, R2 = F, n = 0). This was acylated with trans-4-acetoxycyclohexanecarbonyl chloride, followed by LiAlH4 reduction to give I (X = S, R = trans-4-hydroxycyclohexyl, R1 = 2-CF3, R2 = F, n = 1; II). II had an amphetamine antagonist ED50 of 0.32 mg/kg i.p. in rats.

IT 73846-53-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and decarboxylation of)

RN 73846-53-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[6-fluoro-2-(trifluoromethyl)-9H-thioxanthen-9-ylidene]-, 2,2,2-trichloroethyl ester (9CI) (CA INDEX NAME)



IT 73846-68-1P 73847-14-0P 73847-20-8P

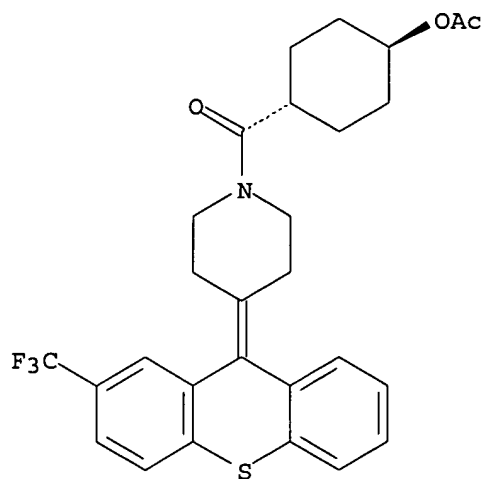
73847-29-7P 73847-30-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)

RN 73846-68-1 CAPLUS

CN Piperidine, 1-[[4-(acetyloxy)cyclohexyl]carbonyl]-4-[2-(trifluoromethyl)-9H-thioxanthen-9-ylidene]-, trans- (9CI) (CA INDEX NAME)

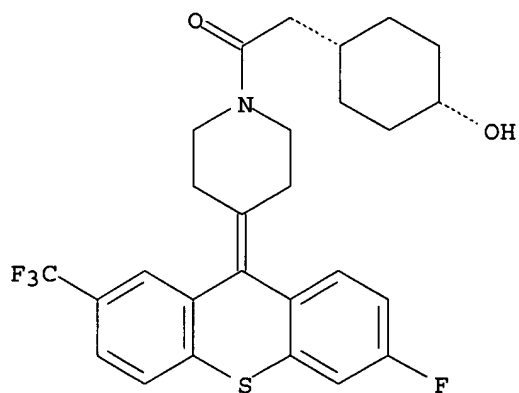
Relative stereochemistry.



RN 73847-14-0 CAPLUS

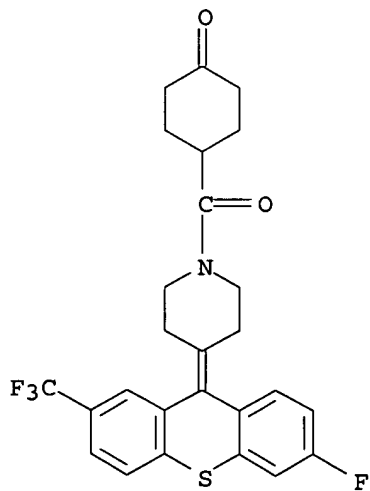
CN Piperidine, 4-[6-fluoro-2-(trifluoromethyl)-9H-thioxanthen-9-ylidene]-1-[(4-hydroxycyclohexyl)acetyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



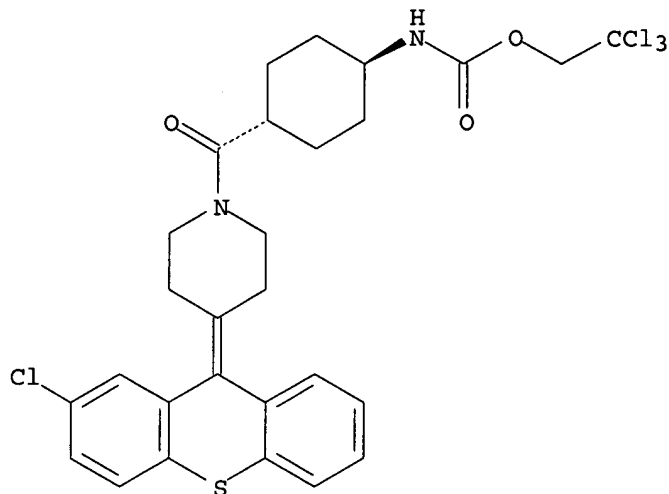
RN 73847-20-8 CAPLUS

CN Piperidine, 4-[6-fluoro-2-(trifluoromethyl)-9H-thioxanthen-9-ylidene]-1-[(4-oxocyclohexyl)carbonyl]- (9CI) (CA INDEX NAME)



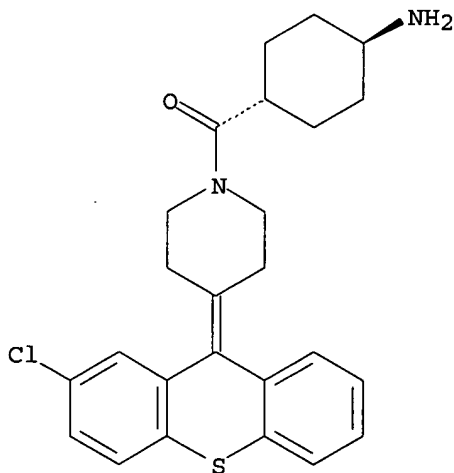
RN 73847-29-7 CAPLUS
 CN Carbamic acid, [4-[[4-(2-chloro-9H-thioxanthen-9-ylidene)-1-piperidinyl]carbonyl]cyclohexyl]-, 2,2,2-trichloroethyl ester, trans-(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 73847-30-0 CAPLUS
 CN Piperidine, 1-[(4-aminocyclohexyl)carbonyl]-4-(2-chloro-9H-thioxanthen-9-ylidene)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L6 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1977:121184 CAPLUS
 DN 86:121184
 TI Piperidylidene derivatives
 PA Smithkline Corp., USA
 SO Fr. Demande, 35 pp.
 CODEN: FRXXBL
 DT Patent
 LA French
 FAN.CNT 2

PATENT NO.

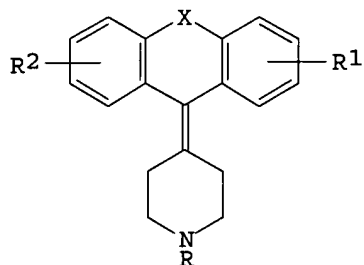
KIND

DATE

APPLICATION NO.

DATE

PI	FR 2290202	A1	19760604	FR 1975-33631	19751104
	FR 2290202	B1	19800523		
	ZA 7506550	A	19760929	ZA 1975-6550	19751016
	AU 7586247	A	19770505	AU 1975-86247	19751031
	AU 498298	B2	19790301		
	CA 1055945	A1	19790605	CA 1975-238781	19751031
	IL 48400	A	19790131	IL 1975-48400	19751102
	HU 174639	B	19800228	HU 1975-SI1494	19751103
	BE 835224	A1	19760504	BE 1975-161500	19751104
	DK 7504957	A	19760507	DK 1975-4957	19751104
	DK 139429	B	19790219		
	DK 139429	C	19790806		
	NL 7512974	A	19760510	NL 1975-12974	19751105
	JP 51070768	A	19760618	JP 1975-133564	19751105
	JP 58026754	B	19830604		
	ES 442357	A1	19770401	ES 1975-442357	19751105
	CH 624403	A5	19810731	CH 1975-14321	19751105
	JP 62020190	B	19870506	JP 1976-1409	19760101
PRAI	US 1974-521216	A	19741106		
OS	MARPAT 86:121184				
GI					



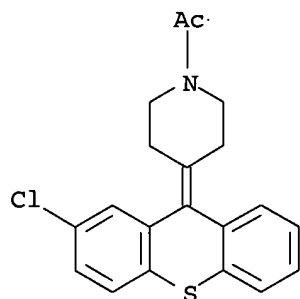
I

AB Piperidylidene derivs. I (R = H, Me, CH₂CH₂OH, Et, Bu, cyclobutylmethyl, Pr, (CH₂)₃OH; R₁ = 2-Cl, 2-CF₃, 2-SMe, 2-F, 2-Br, 2-CN, 3-F, 3-Cl; R₂ = H, 6-Cl, 6-F; X = O, S; R = Me, R₁ = H, 3-Cl, R₂ = H, 9-Cl, X = OCH₂) were prepared for use as tranquilizers without extrapyramidal side-effects. Grignard reaction of 4-chloro-1-methylpiperidine with 2-chloroxanthone and dehydration of the resulting alc. gave I (R = Me, R₁ = 2-Cl, R₂ = H, X = O).

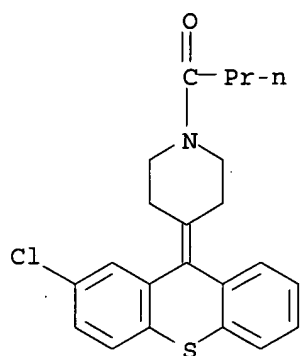
IT 60086-30-8P 60086-31-9P 60132-03-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reduction of)

RN 60086-30-8 CAPLUS

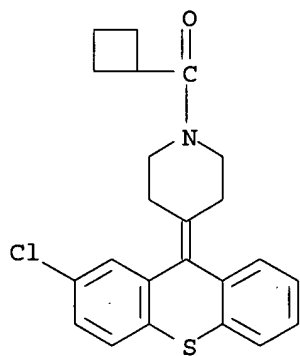
CN Piperidine, 1-acetyl-4-(2-chloro-9H-thioxanthen-9-ylidene)- (9CI) (CA INDEX NAME)



RN 60086-31-9 CAPLUS
 CN Piperidine, 4-(2-chloro-9H-thioxanthen-9-ylidene)-1-(1-oxobutyl)- (9CI)
 (CA INDEX NAME)



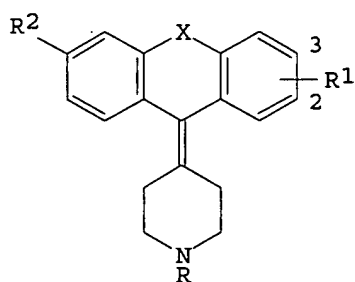
RN 60132-03-8 CAPLUS
 CN Piperidine, 4-(2-chloro-9H-thioxanthen-9-ylidene)-1-(cyclobutylcarbonyl)-
 (9CI) (CA INDEX NAME)



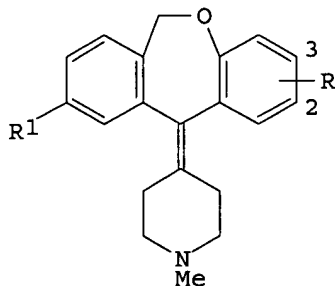
L6 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1976:478025 CAPLUS
 DN 85:78025
 TI Piperidylidene derivatives and their salts
 IN Zirkle, Charles L.
 PA Smithkline Corp., USA
 SO Ger. Offen., 46 pp.
 CODEN: GWXXBX
 DT Patent
 LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2549841	A1	19760513	DE 1975-2549841	19751106
	DE 2549841	C2	19880707		
	ZA 7506550	A	19760929	ZA 1975-6550	19751016
	AU 7586247	A	19770505	AU 1975-86247	19751031
	AU 498298	B2	19790301		
	CA 1055945	A1	19790605	CA 1975-238781	19751031
	IL 48400	A	19790131	IL 1975-48400	19751102
	HU 174639	B	19800228	HU 1975-SI1494	19751103
	BE 835224	A1	19760504	BE 1975-161500	19751104
	DK 7504957	A	19760507	DK 1975-4957	19751104
	DK 139429	B	19790219		
	DK 139429	C	19790806		
	NL 7512974	A	19760510	NL 1975-12974	19751105
	JP 51070768	A	19760618	JP 1975-133564	19751105
	JP 58026754	B	19830604		
	ES 442357	A1	19770401	ES 1975-442357	19751105
	CH 624403	A5	19810731	CH 1975-14321	19751105
	JP 62020190	B	19870506	JP 1976-1409	19760101
PRAI	US 1974-521216	A	19741106		
GI					



I



II

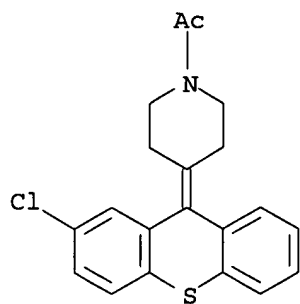
AB Piperidylidene derivs. I [R = H, Me, Et, Pr, Bu, CH₂CH₂OH, (CH₂)₃OH, cyclobutylmethyl; R₁ = 2-Cl, 3-Cl, 2-MeS 2-F, 2-Br, 2-CF₃, 2-cyano; R₂ = H, Cl, F; X = O, S] and(or) their HCl, maleic acid, MeSO₃H, or furmatic acid salts (29 compds.) and II (R = H, R₁ = Cl and HCl salt; R = 3-Cl, R₁ = H), useful as tranquilizers, were prepared by 6 methods. Thus, e.g., Grignard reaction of 4-chloro-1-methylpiperidine with 2-chloroxanthone gave 2-chloro-9-(1-methyl-4-piperidyl)xanthen-9-ol, which was dehydrated with o-HO₃SC₆H₄CO₂H anhydride in EtCO₂H to give I (R = Me, R₁ = 2-Cl, R₂ = H, X = O), isolated as the maleateeee. Treatment of I (R = Me) with BrCN gave I (R = cyano) which were hydrolyzed to I (R = H). These were alkylated or acrylated with subsequent reduction Tables showing the antipsychotic and extrapyramidal activity of I and II were given.

IT 60086-30-8 60086-31-9 60132-03-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of)

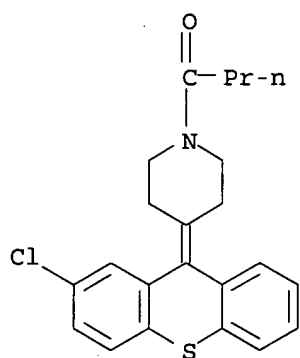
RN 60086-30-8 CAPLUS

CN Piperidine, 1-acetyl-4-(2-chloro-9H-thioxanthen-9-ylidene)- (9CI) (CA INDEX NAME)



RN 60086-31-9 CAPLUS

CN Piperidine, 4-(2-chloro-9H-thioxanthen-9-ylidene)-1-(1-oxobutyl)- (9CI)
(CA INDEX NAME)



RN 60132-03-8 CAPLUS

CN Piperidine, 4-(2-chloro-9H-thioxanthen-9-ylidene)-1-(cyclobutylcarbonyl)-
(9CI) (CA INDEX NAME)

